AMENDMENTS TO THE CLAIMS

This listing of claim will replace all prior versions and listings of claim in the application.

1. (Currently amended) A tool system adapted to operate on a work piece, said tool

system comprising:

a first guide system providing a first laser guide line; and

a tool including:

an action component adapted to operate on said work piece by following the laser

guide line impinging on the tool on the work piece,

a guide detector adapted to detect a position of said first laser guide line incident on

the guide detector and provide first guide position data corresponding to said position of said

first guide, and

a location detector in communication with said guide detector to receive said first

guide position data, wherein said location detector is adapted to determine an orientation of

said action component relative to said laser guide line, based at least in part on said first

guide position data.

2. (original) The tool system of claim 1, wherein said location detector is adapted to

provide orientation information corresponding to said orientation of said action component.

3. (original) The tool system of claim 2, wherein said tool further includes:

a set of indicators in communication with said location detector to receive said orientation

information, wherein a state of each indicator in said set is set in response to said orientation

information.

4. (Previously presented) The tool system of claim 3, wherein said first laser guide line

extends across a portion of said work piece and said orientation information received from said

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location controller indicates whether said action component is oriented to be one of the following: in

line with said first laser guide line, offset to a first side of said first laser guide line, or offset to a

second side of said first laser guide line.

5. (Previously presented) The tool system of claim 4, wherein said set of indicators

includes:

a first indicator adapted to be asserted when said orientation information indicates said action

component is oriented to be in line with said first laser guide line,

a second indicator adapted to be asserted when said orientation information indicates said

component is oriented to be offset to a first side of said first laser guide line, and

a third indicator adapted to be asserted when said orientation information indicates said

component is oriented to be offset to a second side of said first laser guide line.

6. (cancelled)

(original) The tool system of claim 1, wherein said orientation information indicates 7.

whether a tool adjustment is needed.

8. (original) The tool system of claim 7, further including:

a component controller in communication with said location detector to receive said

orientation information and in communication with said action component to adjust said action

component in response to said orientation information.

9. (Previously presented) The tool system of claim 8, wherein said first laser guide line

extends across a portion of said work piece and said orientation information received from said

location detector indicates whether said action component is oriented to be one of the following: in

line with said first laser guide line, offset to a first side of said first laser guide line, or offset to a

second side of said first laser guide line.

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10. (Previously presented) The tool system of claim 9, wherein said component

controller is adapted to orient said action component to be in line with said first laser guide line in

response to said orientation information.

11. (Previously presented) The tool system of claim 10, wherein said component

controller is adapted to orient said action component as follows:

if said orientation information indicates said action component is oriented to be in line with

said first laser guide line, said component controller maintains said orientation of said action

component,

if said orientation information indicates said action component is oriented to be offset to said

first side of said first laser guide line, said component controller modifies said orientation of said

action component to be in line with said first laser guide line, and

if said orientation information indicates said action component is oriented to be offset to said

second side of said first laser guide line, said component controller modifies said orientation of said

action component to be in line with said first laser guide line.

12. (original) The tool system of claim 11, wherein said tool is a jigsaw, said action

component is a blade, and said component controller drives a motor coupled to said blade to orient

said blade in response to said orientation information.

13. (original) The tool system of claim 11, wherein said tool is a circular saw, said action

component is a blade, and said component controller is in communication with a set of pistons to

orient said blade in response to said orientation information.

14. (cancelled)

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15. (original) The tool system of claim 7, further including:

a component controller in communication with said location detector to receive said

orientation information and in communication with said action component to set a state of said

action component in response to said orientation information.

16. (Previously presented) The tool system of claim 15, wherein said first laser guide

line extends across said work piece and said orientation information received from said location

detector indicates whether said action component is oriented to be one of the following: in line with

said first laser guide line, offset to a first side of said first laser guide line, or offset to a second side

of said first laser guide line.

17. (Previously presented) The tool system of claim 16, wherein said tool is a nail gun,

said action component is a nail firing mechanism, and said component controller is adapted to set

said state of said action component as follows:

if said orientation information indicates said action component is oriented to be in line with

said first laser guide line, said component controller disables said nail firing mechanism,

if said orientation information indicates said action component is oriented to be offset to said

first side of said first laser guide line, said component controller enables said nail firing mechanism,

and

if said orientation information indicates said action component is oriented to be offset to said

second side of said first laser guide line, said component controller enables said nail firing

mechanism.

18. (cancelled)

19. (Previously presented) The tool system of claim 1, further including:

a second laser guide line system providing a second laser guide line, wherein:

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said guide detector is adapted to detect a position of said second laser guide line and provide

second laser guide line position data corresponding to said position of said second laser guide line,

and

said location detector is in communication with said guide detector to receive said second

laser guide line position data, wherein said location detector is adapted to determine an orientation of

said action component, based at least in part on said first laser guide position data and said second

laser guide line position data.

20. (original) The tool system of claim 19 wherein said location detector is adapted to

provide orientation information corresponding to said orientation of said action component.

21. (original) The tool system of claim 20, wherein said orientation information indicates

whether an adjustment to said action component is needed.

22. (original) The tool system of claim 21, further including:

a component controller in communication with said location detector to receive said

orientation information and in communication with said action component to adjust said action

component in response to said orientation information.

23. (original) The tool system of claim 22, wherein said tool is a router, said action

component is a cutting head, and said component controller is adapted to adjust a vertical

displacement of said cutting head in response to said orientation information.

24. (original) The tool system of claim 22, wherein said tool is a nail gun, said action

component is a nail firing mechanism, and said component controller is adapted to adjust a state of

said action component as follows:

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if said orientation information indicates said action component is oriented in line with a

location on said work piece where a nail is to be fired, said component controller enables said nail

firing mechanism, and

if said orientation information indicates said action component is not oriented in line with a

location on said work piece where a nail is to be fired, said component controller disables said nail

firing mechanism.

25. (cancelled)

26. (Currently Amended) A tool adapted to operate on a work piece, said tool

comprising:

an action component adapted to operate piece on said work piece relative to a laser guide line

impinging on the tool,

a guide detector adapted to detect a position of at least a first laser guide line impinging upon

the guide detector and provide first guide position data corresponding to said position of said first

laser guide line; and

a location detector in communication with said guide detector to receive said first laser guide

position data, wherein said location detector is adapted to determine an orientation of said action

component relative to said first laser guide line, based at least in part on said first laser guide

position data.

27. (original) The tool of claim 26, wherein said location detector is adapted to provide

orientation information corresponding to said orientation of said action component.

28. (original) The tool system of claim 27, wherein said tool further includes:

a set of indicators in communication with said location detector to receive said orientation

information, wherein a state of each indicator in said set is set in response to said orientation

information.

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29. (Previously presented) The tool of claim 28, wherein said first laser guide line

extends across a portion of said work piece and said orientation information received from said

location controller indicates whether said action component is oriented to be one of the following: in

line with said laser first guide line, offset to a first side of said first laser guide line, or offset to a

second side of said laser first guide line.

30. (Previously presented) The tool of claim 29, wherein said set of indicators includes:

a first indicator adapted to be asserted when said orientation information indicates said action

component is oriented to be in line with said first laser guide line,

a second indicator adapted to be asserted when said orientation information indicates said

component is oriented to be offset to a first side of said first laser guide line, and

a third indicator adapted to be asserted when said orientation information indicates said

component is oriented to be offset to a second side of said first laser guide line.

31. (Previously presented) The tool of claim 26, wherein said first laser guide line is a

laser beam and said guide detector is a photo diode detector array.

32. (original) The tool of claim 26, wherein said orientation information indicates

whether a tool adjustment is needed.

33. (original) The tool of claim 32, further including:

a component controller in communication with said location detector to receive said

orientation information and in communication with said action component to adjust said action

component in response to said orientation information.

34. (Previously presented) The tool of claim 33, wherein said first laser guide line

extends across a portion of said work piece and said orientation information received from said

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location detector indicates whether said action component is oriented to be one of the following: in

line with said first laser guide line, offset to a first side of said first laser guide line, or offset to a

second side of said first laser guide line.

35. (Previously presented) The tool of claim 34, wherein said component controller is

adapted to orient said action component to be in line with said portion of said first laser guide line in

response to said orientation information.

36. (Previously presented) The tool of claim 35, wherein said component controller is

adapted to orient said action component as follows:

if said orientation information indicates said action component is oriented to be in line with

said first laser guide line, said component controller maintains said orientation of said action

component,

if said orientation information indicates said action component is oriented to be offset to said

first side of said first laser guide line, said component controller modifies said orientation of said

action component to be in line with said first laser guide line, and

if said orientation information indicates said action component is oriented to be offset to said

second side of said laser first guide line, said component controller modifies said orientation of said

action component to be in line with said first laser guide line.

37. (original) The tool of claim 36, wherein said tool is a jigsaw, said action component

is a blade, and said component controller drives a motor coupled to said blade to orient said blade in

response to said orientation information.

38. (original) The tool of claim 36, wherein said tool is a circular saw, said action

component is a blade, and said component controller is in communication with a set of pistons to

orient said blade in response to said orientation information.

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39. (Cancelled)

40. (Cancelled)

41. (Previously presented) The tool of claim 33, wherein said tool is a nail gun, said

action component is a nail firing mechanism, and said component controller is adapted to adjust said

action component as follows:

if said orientation information indicates said action component is oriented to be in line with

said first laser guide line, said component controller disables said nail firing mechanism,

if said orientation information indicates said action component is oriented to be offset to said

first side of said first laser guide line, said component controller enables said nail firing mechanism,

and

if said orientation information indicates said action component is oriented to be offset to said

second side of said first laser guide line, said component controller enables said nail firing

mechanism.

42. (Previously presented) The tool of claim 26, wherein said guide detector is further

adapted to detect a position of a second laser guide line and provide second laser guide line position

data corresponding to said position of said second laser guide line,

wherein said location detector is in communication with said guide detector to receive said

second laser guide line position data, wherein said location detector is adapted to determine an

orientation of said action component, based at least in part on said first laser guide line position data

and said second guide line position data.

43. (original) The tool of claim 42 wherein said location detector is adapted to provide

orientation information corresponding to said orientation of said action component.

(original) The tool of claim 43, wherein said orientation information indicates 44.

whether an adjustment to said action component is needed.

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45. (original) The tool of claim 44, further including:

a component controller in communication with said location detector to receive said

orientation information and in communication with said action component to adjust said action

component in response to said orientation information.

46. (original) The tool of claim 45, wherein said tool is a router, said action component

is a cutting head, and said component controller is adapted to adjust a vertical displacement of said

cutting head in response to said orientation information.

47. (original) The tool of claim 45, wherein said tool is a nail gun, said action component

is a nail firing mechanism, and said component controller is adapted to adjust said action component

as follows:

if said orientation information indicates said action component is oriented in line with a

location on said work piece where a nail is to be fired, said component controller enables said nail

firing mechanism, and

if said orientation information indicates said action component is not oriented in line with a

location on said work piece where a nail is to be fired, said component controller disables said nail

firing mechanism.

48. (cancelled)

49. (cancelled)

50. (Currently Amended) A tool adapted to operate on a work piece, said tool

comprising:

an action component adapted to operate on said work piece along a laser line

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a location detector adapted to determine an orientation of said component relative to the laser

line, based at least in part on a position of a set of one or more laser guide lines impinging upon the

action component, and provide orientation information corresponding to said orientation; and

a component controller in communication with said location detector to receive said

orientation information and in communication with said action component to adjust said action

component in response to said orientation information.

51. (original) The tool of claim 50, wherein said tool further includes:

a set of indicators in communication with said location detector to receive said orientation

information, wherein a state of each indicator in said set is set in response to said orientation

information.

52. (original) The tool of claim 50, wherein said orientation information indicates

whether an action component adjustment is needed.

53. (original) The tool of claim 52, wherein said component controller is in

communication with said action component to orient said action component in response to said

orientation information.

54. (original) The tool of claim 52, wherein said component controller is in

communication with said action component to change a state of said action component in response

to said orientation information.

55. (original) The tool of claim 52, wherein said tool is a jigsaw, said action component

is a blade, and said component controller drives a motor coupled to said blade to orient said blade in

response to said orientation information.

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56. (original) The tool of claim 52, wherein said tool is a circular saw, said action

component is a blade, and said component controller orients said blade in response to said

orientation information.

57. (original) The tool of claim 56, wherein said component controller is in

communication with a set of pistons to orient said blade in response to said orientation information.

58. (original) The tool of claim 52, wherein said tool is a router and said action

component is a cutting head.

59. (original) The tool of claim 58, wherein said component controller is adapted to

adjust a vertical displacement of said cutting head in response to said orientation information.

60. (original) The tool of claim 52, wherein said tool is a nail gun and said action

component is a nail firing mechanism.

61. (original) The tool of claim 60, wherein said component controller is adapted to set a

state of said nail firing mechanism as follows:

if said orientation information indicates said nail firing mechanism is oriented in line with a

location on said work piece where a nail is to be fired, said component controller enables said nail

firing mechanism, and

if said orientation information indicates said nail firing mechanism is not oriented in line

with a location on said work piece where a nail is to be fired, said component controller disables said

nail firing mechanism.

62. (cancelled)

63. (cancelled)

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64. (cancelled)

65. (Currently Amended) A method for identifying the orientation of a tool on a work

piece, wherein said tool includes an action component for operating on said work piece along a line,

said method including the steps of:

detecting position data for one or more laser guide lines incident upon said action (a)

component;

(b) determining an orientation of said tool relative to said laser line based at least in part

on said position data detected in said step (a); and

adjusting said tool in response to said orientation determined in said step (b). (c)

66. (original) The method of claim 65, wherein said step (c) includes the step of:

(1) asserting at least one indicator.

67. (original) The method of claim 66, wherein said at least one indicator identifies a

direction for steering said tool.

68. (original) The method of claim 65, wherein said step (c) includes the step of:

(1) adjusting an orientation of said component.

69. (original) The method of claim 65, wherein said step (c) includes the step of:

(1) adjusting a state of said component.

70. (cancelled)

71. (Currently Amended) A tool adapted to operate on a work piece, said tool

comprising:

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an action component adapted to operate on said work piece along a line;

one or more storage devices; and

one or more processing devices in communication with said one or more storage devices and said action component, said one or more processing devices including code instructing the devices to perform a method comprising the steps of:

- (a) determining an orientation of said tool based at least in part on a position of a set of one or more laser guide lines <u>impinging upon said tool</u>; and
 - (b) adjusting said tool in response to said orientation determined in said step (a).
 - 72. (original) The tool of claim 71, wherein said step (b) includes the step of:
 - (1) asserting at least one indicator.
 - 73. (original) The tool of claim 71, wherein said step (b) includes the step of:
 - (1) adjusting an orientation of said component.
 - 74. (original) The tool of claim 71, wherein said step (b) includes the step of:
 - (1) adjusting a state of said component.
- 75. (original) The tool of claim 71, wherein said tool is a jigsaw and said action component is a blade, wherein said step (b) includes the step of:
 - (1) adjusting an orientation of said blade.
- 76. (original) The tool of claim 71, wherein said tool is a circular saw and said action component is a blade, wherein said step (b) includes the step of:
 - (1) adjusting an orientation of said blade.
- 77. (original) The tool of claim 71, wherein said tool is a router and said action component is a cutting head, wherein said step (b) includes the step of:

(1) adjust a vertical displacement of said cutting head.

78. (original) The tool of claim 71, wherein said tool is a nail gun and said action

component is a nail firing mechanism, wherein said step (b) includes the steps of:

(1) enabling said nail firing mechanism if said orientation corresponds to said nail firing

mechanism being in line with a location on said work piece where a nail is to be fired; and

disabling said nail firing mechanism if said orientation corresponds to said nail firing

mechanism not being in line with a location on said work piece where a nail is to be fired.

79. (cancelled)

80. (Currently Amended) A tool adapted to operate on a work piece along a line, said

tool comprising:

means for detecting position data for one or more laser guide lines incident upon the tool;

means for determining an orientation of said tool based at least in part on said position data;

and

means for adjusting said tool relative to said laser guide lines in response to said orientation

determined by said means for determining.

81. (original) The tool of claim 80, wherein said tool includes:

a set of one or more indicators; and

means for asserting at least one indicator in said set of one or more indicators in response to

said orientation of said tool.

82. (original) The tool of claim 80, wherein said means for adjusting includes:

means for adjusting an orientation of said component in response to said orientation

determined by said means for determining.

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- 83. (original) The tool of claim 80, wherein said means for adjusting includes: means for adjusting a state of said component in response to said orientation determined by said means for determining.
 - 84. (cancelled)